

**Notice of Allowability**

Application No.

10/696,333

Examiner

Hung T. Vy

Applicant(s)

GHAZAL, AHMAD SAID

Art Unit

2163

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/24/2006.
2. ☒ The allowed claim(s) is/are 1,3-11,13-21 and 23-30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**DON WONG**  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

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1. This is a response to Applicant's amendment filed on 07/24/2006. In virtue of this remarks, claims 1, 3-11, 13-21, and 23-30 remain pending in this application which claims 2, 12 and 22 are cancels. The rejection of claims 1-30 by Dettinger et al. mailed on 04/24/2006 is hereby withdrawn. Claims 1, 3-11, 13-21, and 23-30 are allowed.

#### **Examiner's Amendment**

2. An examiner's amendment to the record appears below. Should the changes and /or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.3.12. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3. The following claim has been amended upon agreement by applicant during a telephone conversation with Mr. Hawes Michael on 08/15/20006.

In claim 1, line 9, the phrase "the union" has been changed to – a union--.

In claim 1, line 19, after the word "the cardinality.", add –to produce a query result.--.

In claim 11, line 10, the phrase "the union" has been changed to – a union--.

In claim 11, line 19, after the word "the cardinality.", add –to produce a query result.--.

In claim 21, line 16, the phrase "the union" has been changed to – a union--.

In claim 21, line 25, after the word "the cardinality.", add –to produce a query result.--.

#### **Reasons for Allowance**

3. Claims 1, 3-11, 13-21, and 23-30 are allowed.

The following is an examiner's statement of reason for allowance:

None of the references of record teaches or suggests the claimed a method and a database system for executing data base queries including identifying redundant conditions, comprising the steps of, along with all the other claimed feature, (a) identifying a first set of conditions corresponding to a selected step for executing a query; (b) identifying a second set of conditions corresponding to one or more steps for executing the query **that feed the selected step**; (c) for each condition in the first set, checking whether the condition is mathematically redundant, (d) including redundant without being equivalent, wherein the conditions in a union of any other conditions corresponding to the selected step and the conditions in the second set, including each condition in the first set, (e) if there is only one condition is the third set after performing step (d), storing an identifier of the one condition; (f) **calculating a cardinality of the selected step without considering any condition with stored identifier**; and executing the query base at least in part on the cardinality.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

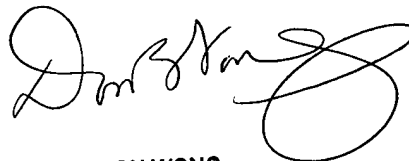
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung T. Vy whose telephone number is 571-2721954. The examiner can normally be reached on 8.30am - 5.30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571 272 1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hung T. Vy  
Art Unit 2821  
August 19, 2006.

A handwritten signature in black ink, appearing to read 'Don Wong', with a large, stylized loop at the end.

**DON WONG**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2100**

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